Question Paper
ANMC Mock Test Class 7 - Rational Number (Paper 3)

Exam ID : TEST/2024/01/05134459 Report Generation Date : 3/26/2024 2:59:49 PM

Q1: The ratio between a two-digit number and the sum of the digit of that number is 3 : 1. If the digit in the unit's place is 5 more than the digit in the ten's place, what is the number?

A: 38

B: 27

C: 16

D: 49

Answer: B

Q2: Find 3/5 + 11/9

A: 14/14

B: 82/14

C: 82/45

D: 33/45

Answer: C

Q3: Sum of two rational numbers is 2/5. If one of them is -1/3, then find the other rational number.

A: -1/15

B: 3/8

C: -11/15

D: 11/15

Answer: D

Q4: Find the multiplicative inverse of: (-5/8)×(1/3)

A: 24/5

B: 6/11

C: -24/5

D: -6/11

Answer: C

Q5: Find the value of: {(2/3 + 1/6) + [5/9 ÷ 10/27] - (3/2 + 7)}

A: -47/6

B: 1

C: -37/6

D: 47/6

Answer: C

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Q6: Find the value of: (8/3)×[-9/2 + 7/6]

A: 8 8/9

B: -(8 7/9)

C: 8 7/9

D: -(8 8/9)

Answer: D

Q7: Find the multiplicative inverse of: 13/8 × 1/5 + 2

A: -40/93

B: 40/93

C: 41/93

D: -41/93

Answer: B

Q8: Sanjay decided to do his history homework a little bit each night. On the first night he did 1/6 of the homework, the second night he completed 1/5 of the homework, and the third night he worked 1/2 of the homework. How much of the homework has Sanjay completed?

A: 13/16

B: 11/15

C: 11/16

D: 13/15

Answer: D

Q9: Simplify the following: (15)5/3× (15)4/3 ÷ (5)3

A: 32

B: 152

C: 33

D: 53

Answer: C

Q10: Find the additive inverse of: [9/4 × 1/3 + 7]

A: 4/31

B: 31/4

C: -31/4

D: -4/31

Answer: C

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Q11: The ratio between a two-digit number and the sum of the digit of that number is 7 : 1. If the digit in the ten's place is 4 more than the digit in the unit's place, what is the number?

A: 84

B: 51

C: 95

D: 40

Answer: A

Q12: Sum of two rational numbers is 9/5. If one of them is -3/7, then find the other rational number.

A: 48/35

B: 43/35

C: 78/35

D: 71/35

Answer: C

Q13: Find the cost of 23/5 meters of cloth at Rs. 137/4 per meter.

A: Rs. 3151/20

B: Rs. 3141/20

C: Rs. 3171/20

D: Rs. 3131/20

Answer: A

Q14: A car is moving at an average speed of 402/5 km/hr. How much distance will it cover in 17/4 hours?

A: 3414/10 km

B: 3454/10 km

C: 3417/10 km

D: 3467/10 km

Answer: C

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Q15: Find the area of a rectangular park which is 183/5 m in length and its breadth is one-third of its length.

A: 11163/25 sq. m.

B: 1163/5 sq. m.

C: 11123/25 sq. m.

D: 1113/5 sq. m.

Answer: A

Q16: A cord of length 165/2 m has been cut into 24 pieces of equal length. What is the length of each piece?

A: 11/3 m

B: 33/8 m

C: 45/14 m

D: 55/16 m

Answer: D

Q17: The sum of the rational numbers (–7/19) and (–6/57) is:

A: -9/19

B: 9/19

C: -13/19

D: 13/19

Answer: A

Q18: Which of the rational numbers 7/9, -5/6, -7/-11 and 11/-20 is the smallest?

A: -7/-11

B: 11/-20

C: 7/9

D: -5/6

Answer: D

Q19: Simplify: (13/9 × -15/2) + (7/3 × 8/5) + (3/5 × 1/3)

A: 65/9

B: -69/10

C: 81/10

D: -73/9

Answer: B

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Q20: Express 0.6323232.... in the form p/q, where p and q are integers and q is not equal to zero.

A: 63/100

B: 79/125

C: 7/11

D: 313/495

Answer: D

Q21: Simplify the following: (81/2 + 141/2)2 + (81/2 - 141/2)2

A: 50

B: 64

C: 28

D: 44

Answer: D

Q22: Rationalize the denominator: 13/[(34)1/2 + (21)1/2]

A: (34)1/2 + (21)1/2

B: (34)1/2 - (21)1/2

C: -(34)1/2 - (21)1/2

D: -(34)1/2 + (21)1/2

Answer: B

Q23: Rationalize the denominator of: 7/[(108)1/2 - (96)1/2 + (192)1/2 - (54)1/2]

A: [2(3)1/2 + (6)1/2]/6

B: [(3)1/2 + (6)1/2]/6

C: [2(3)1/2 + 3(6)1/2]/6

D: [3(3)1/2 + (6)1/2]/6

Answer: A

Q24: Find the multiplicative inverse of: (36/16) × (21/5)

A: 20/189

B: 15/163

C: 24/205

D: 18/193

Answer: A

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Q25: Evaluate the following: (14/5) + [(28/63) ÷ (23/9) ÷ (13/46)]

A: 242/65

B: 212/65

C: 232/65

D: 222/65

Answer: D

Q26: Find the additive inverse of: {[(16/9) × (5/12)] – 6}

A: 142/27

B: – 142/27

C: 136/27

D: – 136/27

Answer: A

Q27: Which of the rational numbers 11/15, 13/18, 9/12 and 17/23 is the smallest?

A: 11/15

B: 13/18

C: 9/12

D: 17/23

Answer: B

Q28: Find the value of: (45/8) × [–10/5 + 12/9]

A: 15/4

B: – 13/4

C: 13/4

D: – 15/4

Answer: D

Q29: Which of the following rational numbers lies between 8/9 and 17/12

A: 29/36

B: 3/2

C: 11/9

D: 30/19

Answer: C

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Q30: What number should be subtracted from 28/13 to get –5/21?

A: – 653/273

B: – 648/273

C: 648/273

D: 653/273

Answer: D